

11720 North Creek Pkwy N, Suite 400. Bothell, WA 98011-8244 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 9405 S.W. Nimbus Avenue. Beaverton, OR 97008-7132 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

FAX 420-9210 (425) 420-9200 FAX 924-9290 (509) 924-9200 (503) 906-9200

(541) 383-9310

FAX 906-9210 FAX 382-7588

**CHAIN OF CUSTODY REPORT** 

Work Order #: P1H0329

CLIENT: BRISTOL						ICE TO:								TURN	AROUNI	REQUEST in Busin	ess Day	s*
REPORT TO: ANNE		TINET	TER		BR	1.570	X									ic & Inorganic Analyses		
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PHONE 907-770	· 014	FAX:	10,0	<u> </u>	P.O. N	UMBER:	2100	(O						ST	,	former, general property		1,420
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PROJECT NUMBER: 210	190													10.757	(P)	less than standard may incur	Puch Cham	24
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Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

17 August, 2001

Anne Krarawetter Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 08/13/01 11:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

ley D. €har[d] For Jerry Orlando Project Manager/QA

Work Orders included in this report:

P1H0329



 Seattle
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Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 21090, PO# 21090

Project Manager: Anne Krarawetter

Reported:

08/17/01 14:06

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	l
01AMC408MI	P1H0329-01	Soil	08/09/01 16:30	08/13/01 11:20	I

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Seattle 1 Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

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425.42. J0 1ax 425.420,9210 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588 Spokane

Portland

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 21090, PO# 21090

Project Manager: Anne Krarawetter

Reported: 08/17/01 14:06

## TCLP Metals per EPA 1311/6000/7000 Series Methods

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC408MI (P1H0329-01) Soil					Sampled: 08/0	9/01 Rece	ived: 08/13/	01	
Arsenic	ND	1.00	mg/l	20	1311/6010A	08/13/01	08/15/01	1081353	M-01
Barium	ND	1.00	11	n	н	Ħ	11	"	M-01
Cadmium	ND	1.00	n	n	Ħ	**	ıı	**	M-01
Chromium	ND	1.00	11	11	n	**	n	tr .	M-01
Lead	ND	1.00	17	"	n	11	**	**	M-01
Mercury	ND	0.000200	11	1	1311/7471A	07/13/01	08/15/01	1081320	141-01
Selenium	ND	1.00	н	20	1311/6010A	08/13/01	08/15/01	1081353	M-01
Silver	ND	1.00	11	n	11	"	"	"	M-01

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Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1

Project: Amchitka

Project Number: 21090, PO# 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Krarawetter

08/17/01 14:06

# TCLP Metals per EPA 1311/6000/7000 Series Methods - Quality Control

 orth	Creek	Anal	lytical	_ ]	Poı	rtland

Analyte	Result	Limit	Units	Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	١
Ratch 1021370 FDA 1211								·	*	<del></del>	7

#### Batch 1081320 - EPA 1311

Matrix Spike (1081320-MS1)	So	urce: P1H032	29-01	Prepared: 08/1	13/01 Analyz	zed: 08/15/01	
Mercury	0.00479	0.000200	mg/l	0.00500	95.8	75-125	
LCS (1081320-BS1)				Prepared: 08/1	3/01 Analyz	zed: 08/15/01	
Mercury	ND	0.000200	mg/l				
Blank (1081320-BLK1)				Prepared: 08/1	13/01 Analyz	zed: 08/15/01	

mg/l

0.00500

ND

94.0

50-150

0.00470

0.000200

#### Rotch 1081353 FDA 1211/2005

Mercury

Blank (1081353-BLK1)				Prepared: 08	/13/01 Analyz	zed: 08/15/01	
Arsenic	ND	1.00	mg/l				M-01
Barium	ND	1.00	п				M-01
Cadmium	ND	1.00	Ħ				M-01
Chromium	ND	1.00	n				M-01
Lead	ND	1.00	**				M-01
Selenium	ND	1.00	**				M-01
Silver	ND	1.00	11				M-01
LCS (1081353-BS1)				Prepared: 08	/13/01 Analyz	zed: 08/15/01	
Arsenic	4.84	1.00	mg/l	5.00	96.8	75-125	M-01
Barium	10.6	1.00	11	10.0	106	75-125	M-01
Cadmium	1.12	1.00	u .	1.00	112	75-125	M-01
Chromium ·	5.63	1.00	11	5.00	113	75-125	M-01
Lead	5.50	1.00	11	5.00	110	75-125	M-01
Selenium	2.30	1.00	u	2.00	115	75-125	M-01
Silver	1.05	1.00	11	1.00	105	75-125	M-01

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Project: Amchitka

Project Number: 21090, PO# 21090

Project Manager: Anne Krarawetter

Reported:

08/17/01 14:06

## TCLP Metals per EPA 1311/6000/7000 Series Methods - Quality Control

North Creek Analytical - Portland

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

### Batch 1081353 - EPA 1311/3005

Matrix Spike (1081353-MS1)	Sour	ce: P1H007	73-01RE1	Prepare	d: 08/13/0			
Arsenic	5.02	1.00	mg/l	5.00	ND	100	50-150	M-01
Barium	10.9	1.00		10.0	ND	106	50-150	M-01
Cadmium	1.16	1.00	11	1.00	ND	116	50-150	M-01
Chromium	6.56	1.00	11	5.00	ND	116	50-150	M-01
Lead	5.52	1.00	11	5.00	ND	110	50-150	M-01
Selenium	2.38	1.00	II	2.00	ND	118	50-150	M-01
Silver	1.04	1.00	li .	1.00	ND	104	50-150	M-01

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Project: Amchitka

Project Number: 21090, PO# 21090

Project Manager: Anne Krarawetter

Reported: 08/17/01 14:06

### Notes and Definitions

M-01 Analysis performed by EPA 200.8/6020 due to matrix interference or to meet lower reporting limit.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

**RPD** Relative Percent Difference

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